

FIG. 1

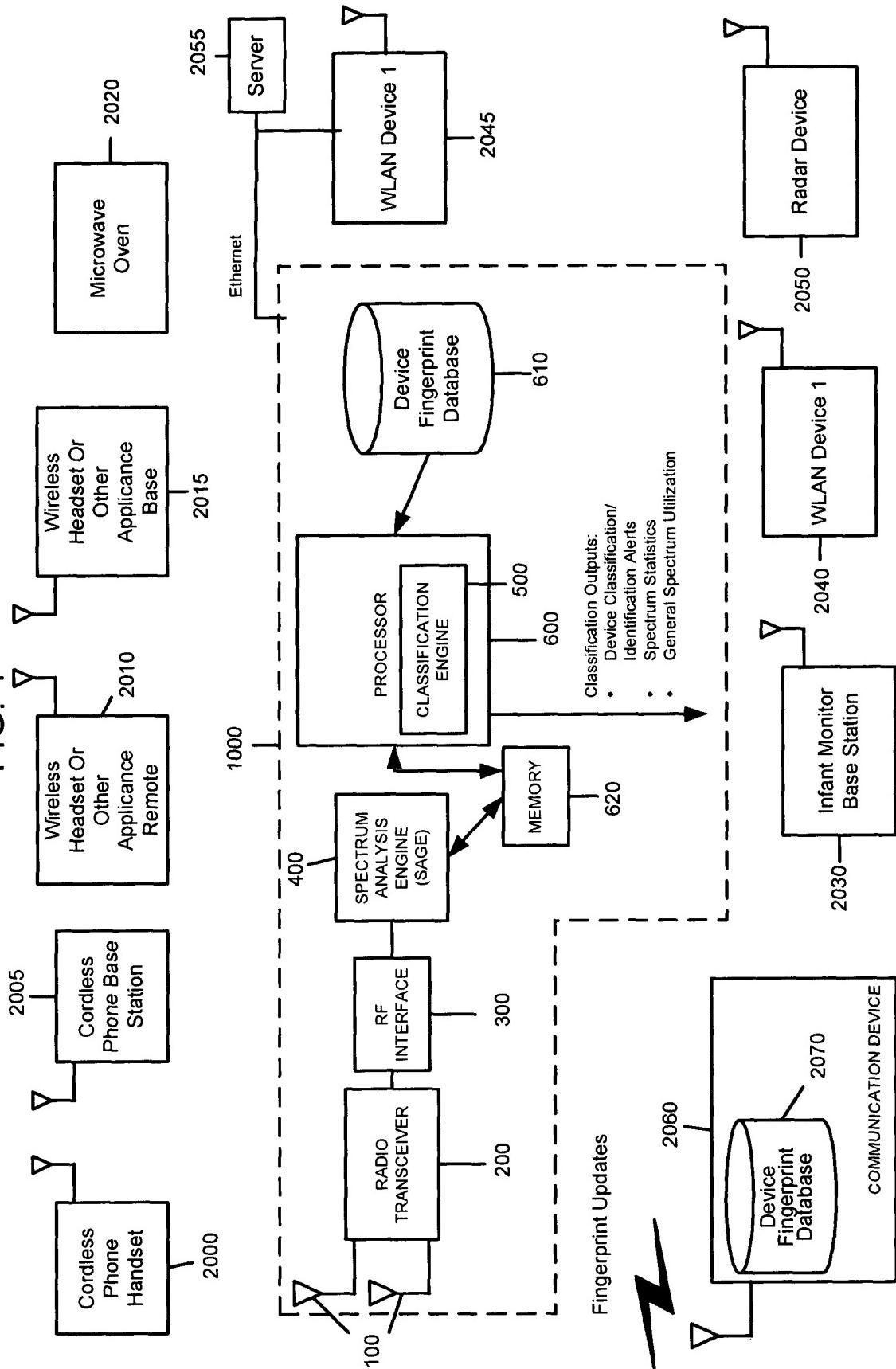


FIG. 2

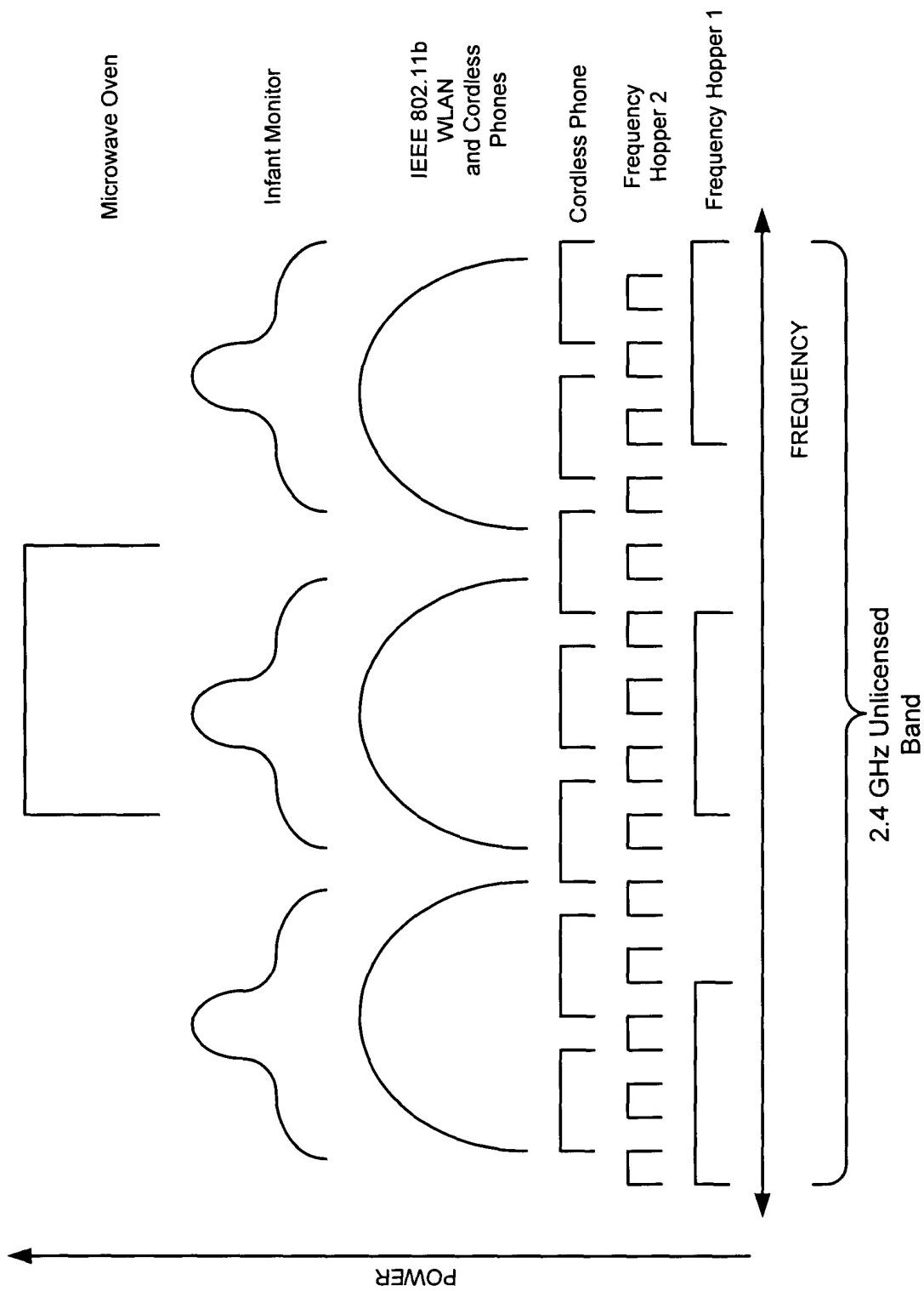
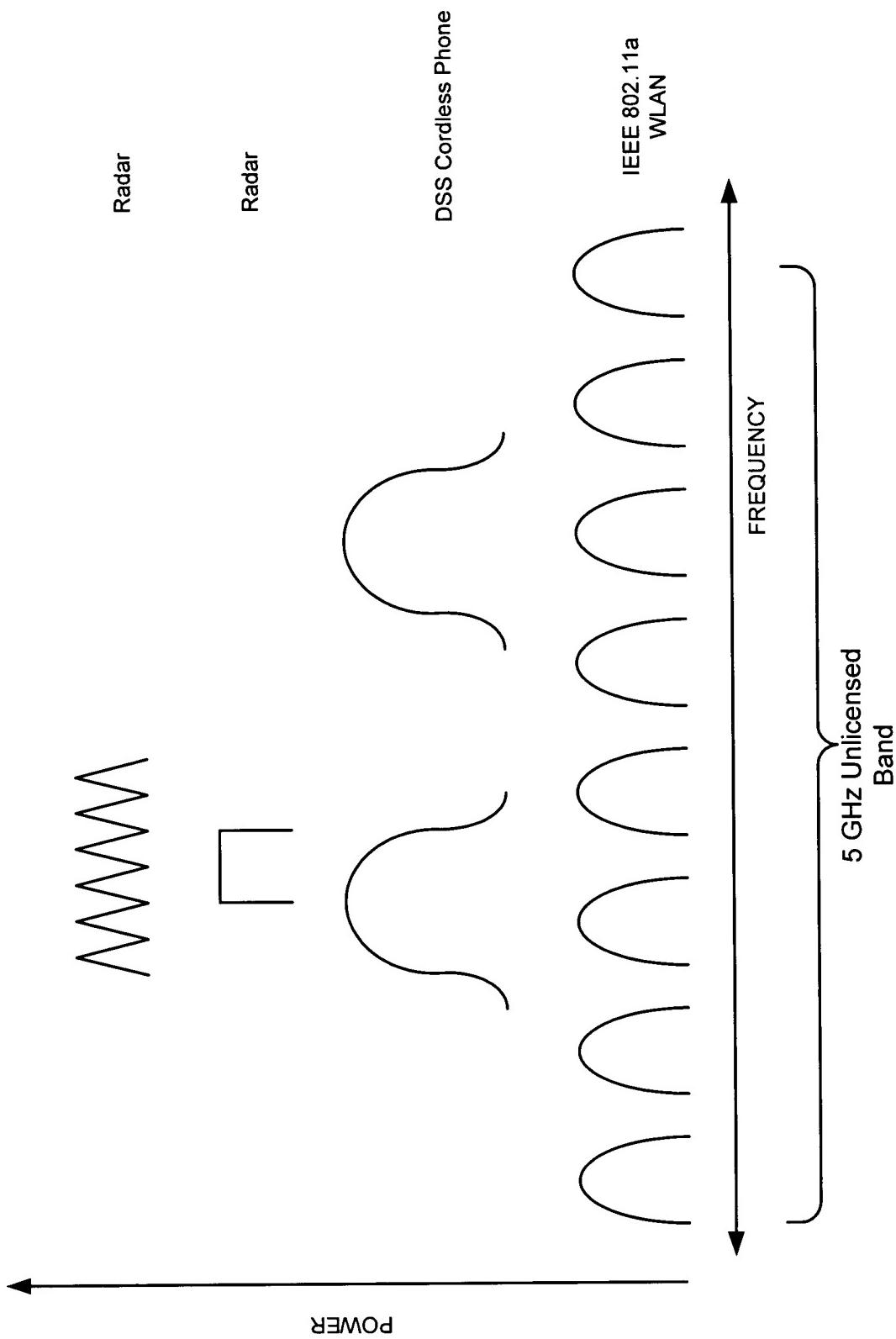


FIG. 3



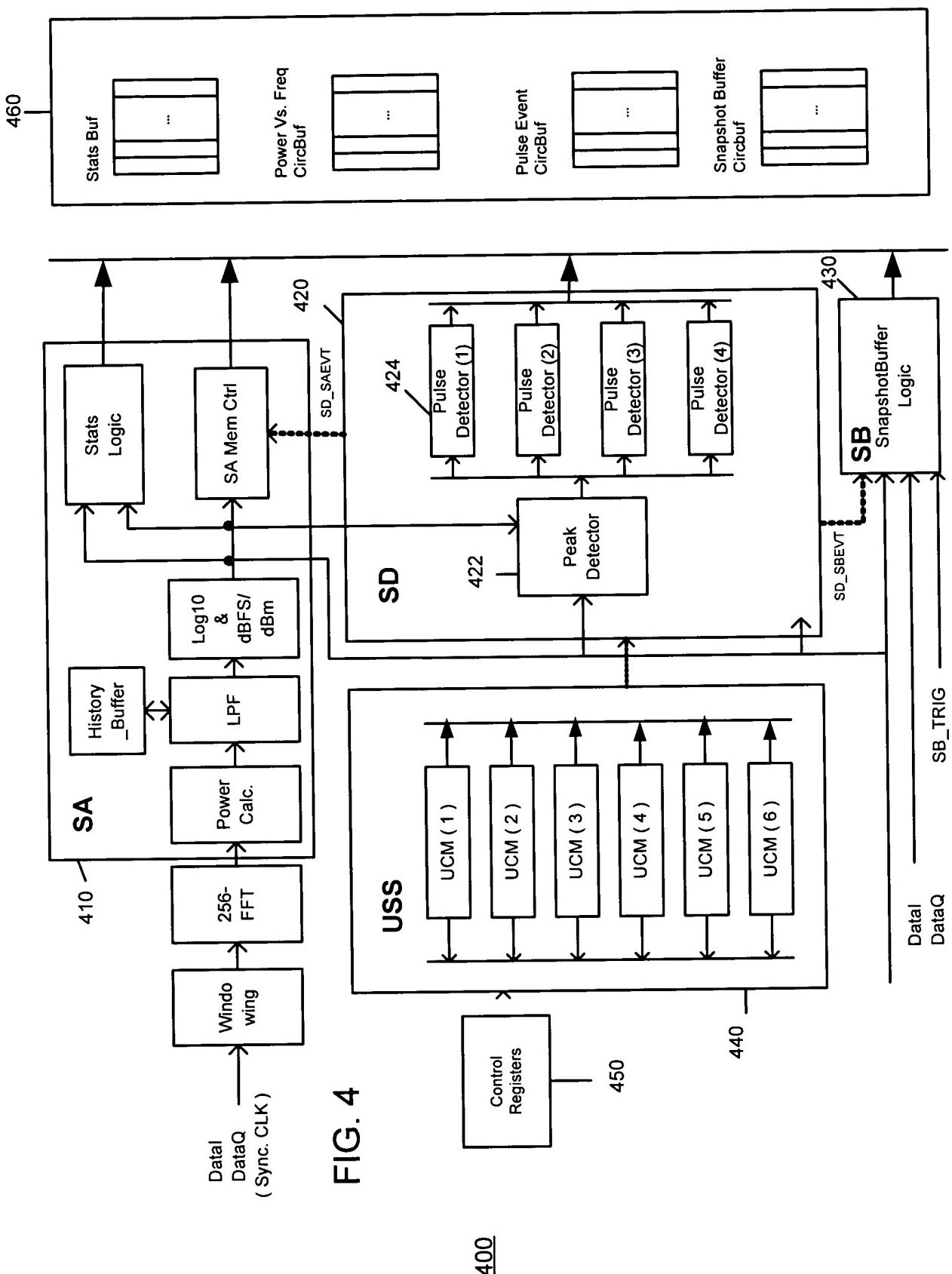


FIG. 5

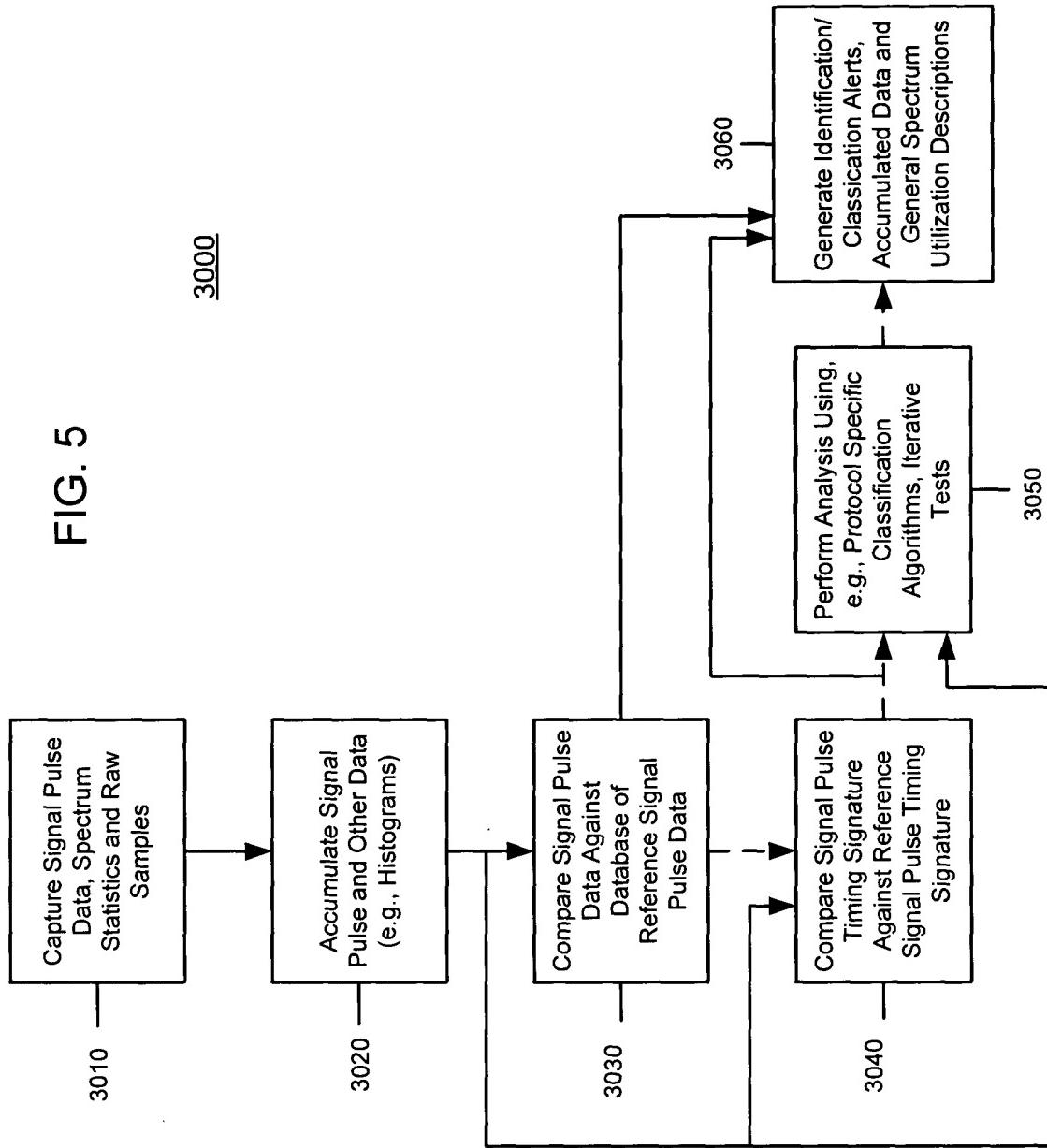


FIG. 6

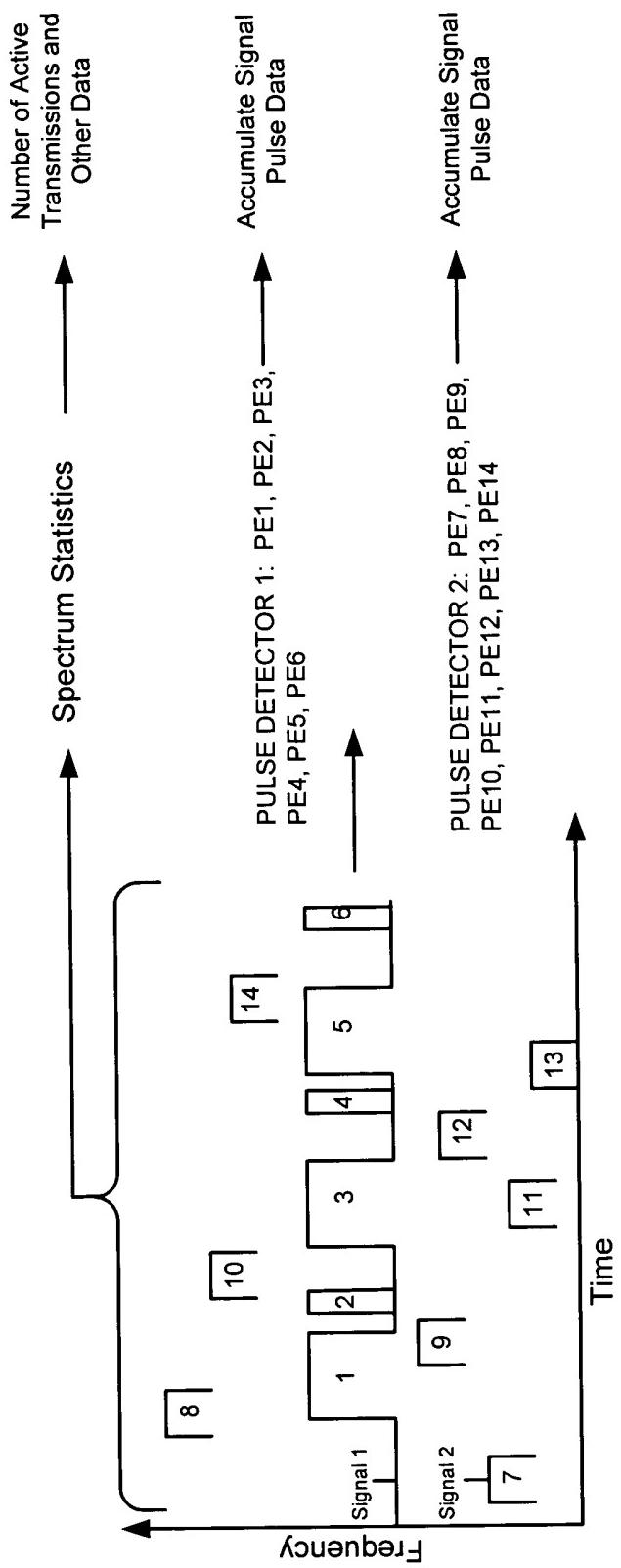
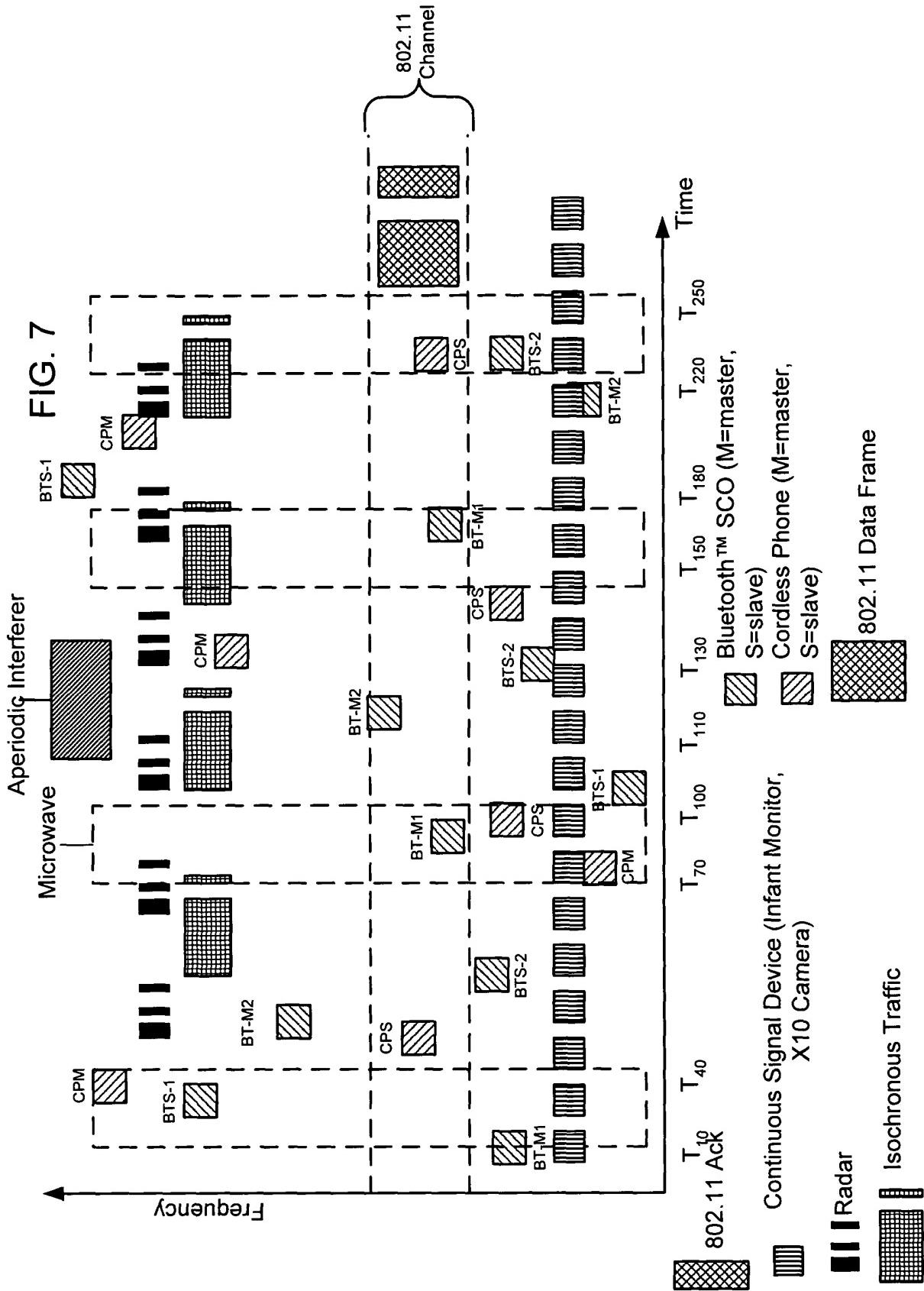


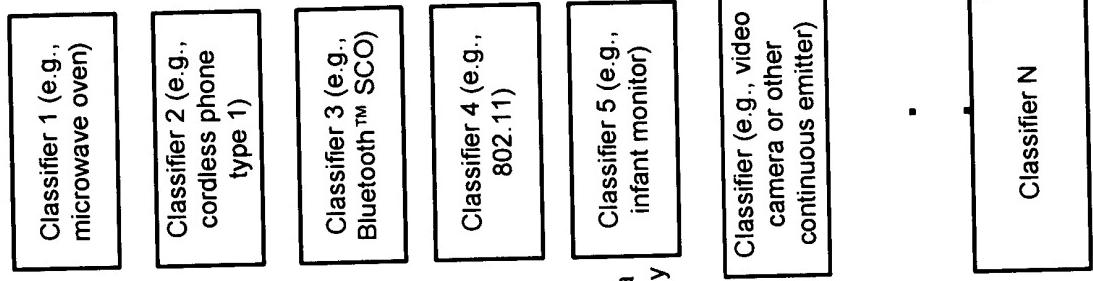
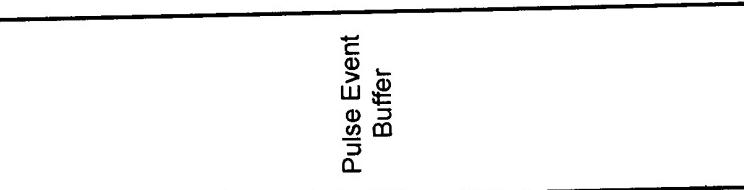
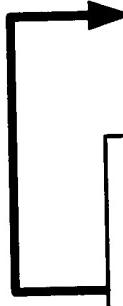
FIG. 7



New Pulse Events

FIG. 8
Pulse History Table in Memory

Pulse Start Time	Pulse Center Frequency	Pulse Duration	Pulse Bandwidth
0 μ s	2.450 GHz	7000 μ s	4000 kHz
0 μ s	2.300 GHz	400 μ s	1000 kHz
0 μ s	2.600 GHz	700 μ s	1000 kHz
625 μ s	2.500 GHz	400 μ s	1000 kHz
3750 μ s	2.700 GHz	400 μ s	1000 kHz
4375 μ s	2.200 GHz	400 μ s	1000 kHz
5000 μ s	2.400 GHz	700 μ s	1000 kHz
7500 μ s	2.400 GHz	400 μ s	1000 kHz
8125 μ s	2.750 GHz	400 μ s	1000 kHz
10000 μ s	2.700 GHz	700 μ s	1000 kHz
11250 μ s	2.250 GHz	400 μ s	1000 kHz
11875 μ s	2.450 GHz	400 μ s	1000 kHz
15000 μ s	2.650 GHz	400 μ s	1000 kHz
15000 μ s	2.100 GHz	700 μ s	1000 kHz
15625 μ s	2.380 GHz	400 μ s	1000 kHz
16000 μ s	2.450 GHz	7000 μ s	4000 kHz



Classifiers/
Templates
access
SAGE Data
Sequentially

SA Stats Data
Power Vs. Frequency
Data
Snapshot Data

Old Pulse Events

FIG. 9

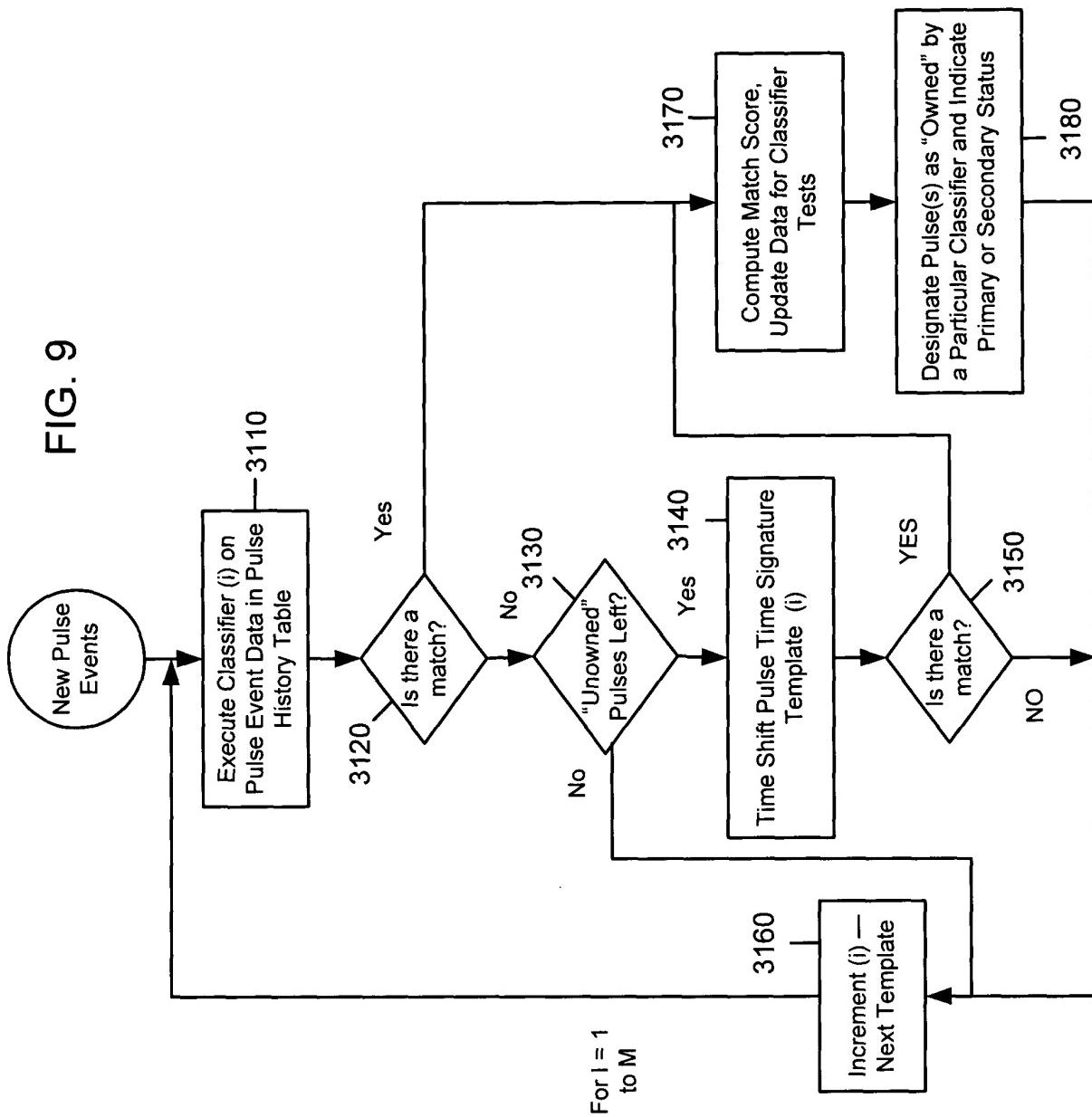


FIG. 10

Pulse Start Time	Pulse Center Frequency	Pulse Duration	Pulse Bandwidth	Classification/Identification
0 μ s	2.450 GHz	7000 μ s	4000 kHz	
0 μ s	2.300 GHz	400 μ s	1000 kHz	
0 μ s	2.600 GHz	700 μ s	1000 kHz	
625 μ s	2.500 GHz	400 μ s	1000 kHz	Possible Bluetooth™ SCO pulse related to 400 μ s pulse at time 0 μ s
3750 μ s	2.700 GHz	400 μ s	1000 kHz	Possible Bluetooth™ SCO pulse related to 400 μ s pulse at time 0 μ s and time 625 μ s
4375 μ s	2.200 GHz	400 μ s	1000 kHz	Possible Bluetooth™ SCO pulse related to 400 μ s pulse at time 0 μ s, time 625 μ s and time 3750 μ s
5000 μ s	2.400 GHz	700 μ s	1000 kHz	Possible cordless phone pulse related to 700 μ s pulse at time 0 μ s
7500 μ s	2.400 GHz	400 μ s	1000 kHz	Possible Bluetooth™ SCO pulse related to 400 μ s pulse at time 0 μ s, time 625 μ s, time 3750 μ s and time 4375 μ s
8125 μ s	2.750 GHz	400 μ s	1000 kHz	Possible Bluetooth™ SCO pulse related to 400 μ s pulse at time 0 μ s, time 625 μ s, time 3750 μ s, time 4375 μ s and time 7500 μ s
10000 μ s	2.700 GHz	700 μ s	1000 kHz	Possible Cordless phone pulse related to 700 μ s pulse at time 0 μ s and at time 5000 μ s (Primary Owner: Classifier 2; Secondary Owner: Classifier Z)
11250 μ s	2.250 GHz	400 μ s	1000 kHz	Possible Bluetooth™ SCO pulse related to 400 μ s pulse at time 0 μ s, time 625 μ s, time 3750 μ s, time 4375 μ s, time 7500 μ s and time 8125 μ s
11875 μ s	2.450 GHz	400 μ s	1000 kHz	...
15000 μ s	2.650 GHz	400 μ s	1000 kHz	...
15000 μ s	2.100 GHz	700 μ s	1000 kHz	Possible Cordless phone pulse related to 700 μ s pulse at time 0 μ s, at time 5000 μ s and at time 1000 μ s (Primary Owner: Classifier 2; Secondary Owner: Classifier Z)
15625 μ s	2.380 GHz	400 μ s	1000 kHz	...
16000 μ s	2.450 GHz	7000 μ s	4000 kHz	Possible microwave oven pulse related to 7000 μ s pulse at time 0 μ s

FIG. 11

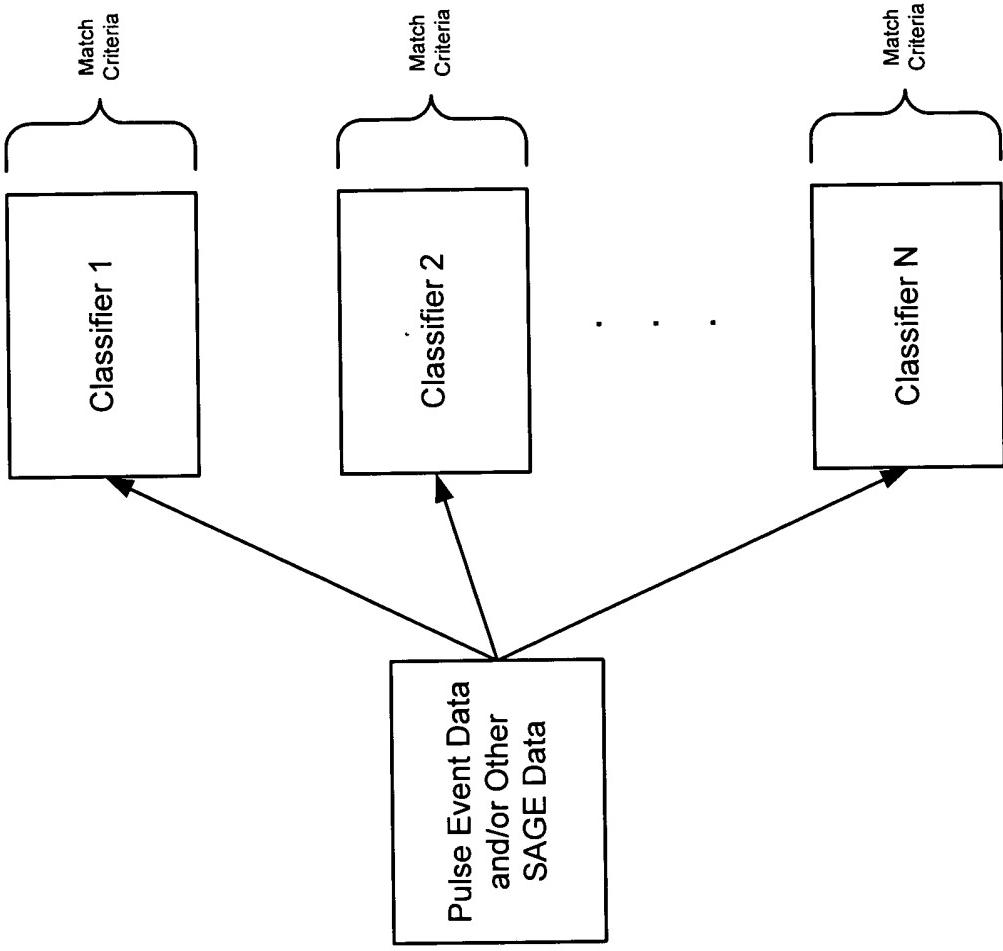


FIG. 12

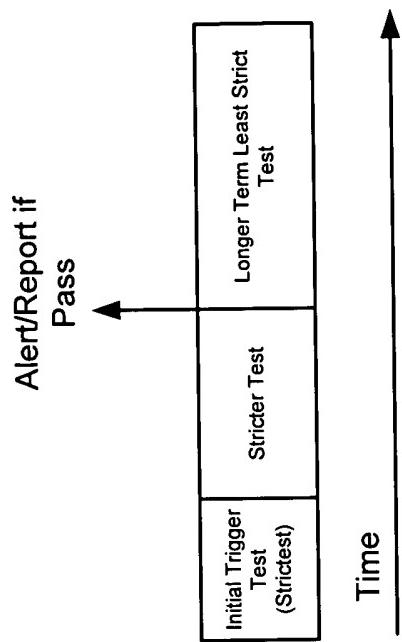


FIG. 13

Exemplary Signal Pulse Templates

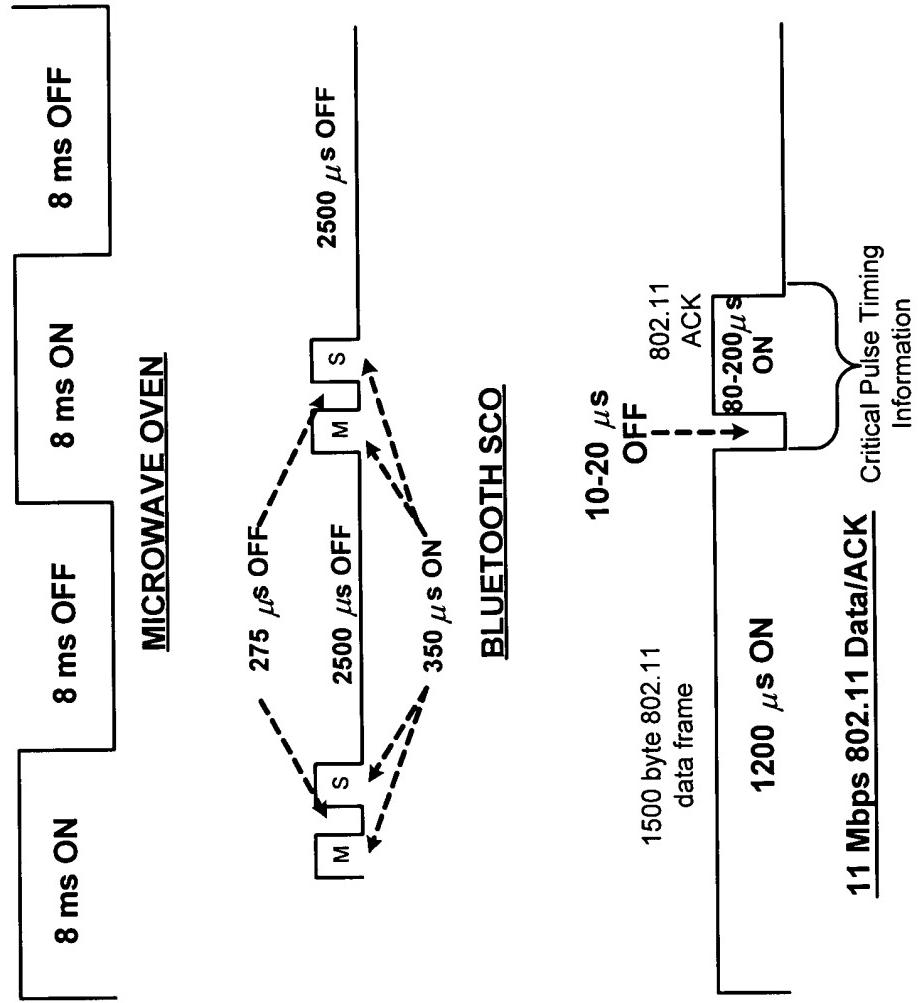
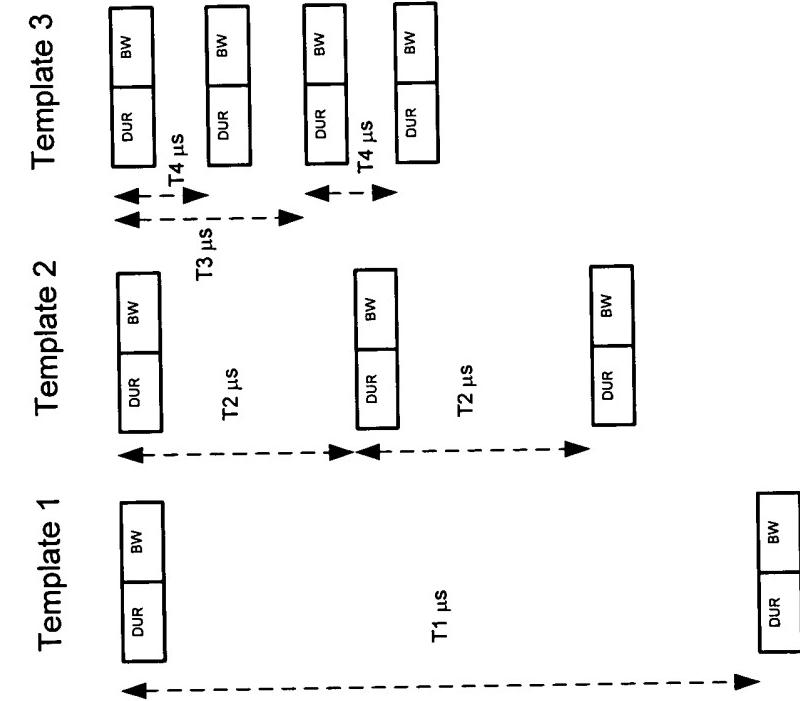


FIG. 14



Pulse History Table

Pulse Start Time	Pulse Center Frequency	Pulse Duration	Pulse Bandwidth
0 μs	2.450 GHz	7000 μs	4000 kHz
0 μs	2.300 GHz	400 μs	1000 kHz
0 μs	2.600 GHz	700 μs	1000 kHz
625 μs	2.500 GHz	400 μs	1000 kHz
3750 μs	2.700 GHz	400 μs	1000 kHz
4375 μs	2.200 GHz	400 μs	1000 kHz
5000 μs	2.400 GHz	700 μs	1000 kHz
7500 μs	2.400 GHz	400 μs	1000 kHz
8125 μs	2.750 GHz	400 μs	1000 kHz
10000 μs	2.700 GHz	700 μs	1000 kHz
11250 μs	2.250 GHz	400 μs	1000 kHz
11875 μs	2.450 GHz	400 μs	1000 kHz
15000 μs	2.650 GHz	400 μs	1000 kHz
15000 μs	2.100 GHz	700 μs	1000 kHz
15625 μs	2.380 GHz	400 μs	1000 kHz
16000 μs	2.450 GHz	7000 μs	4000 kHz

FIG. 15

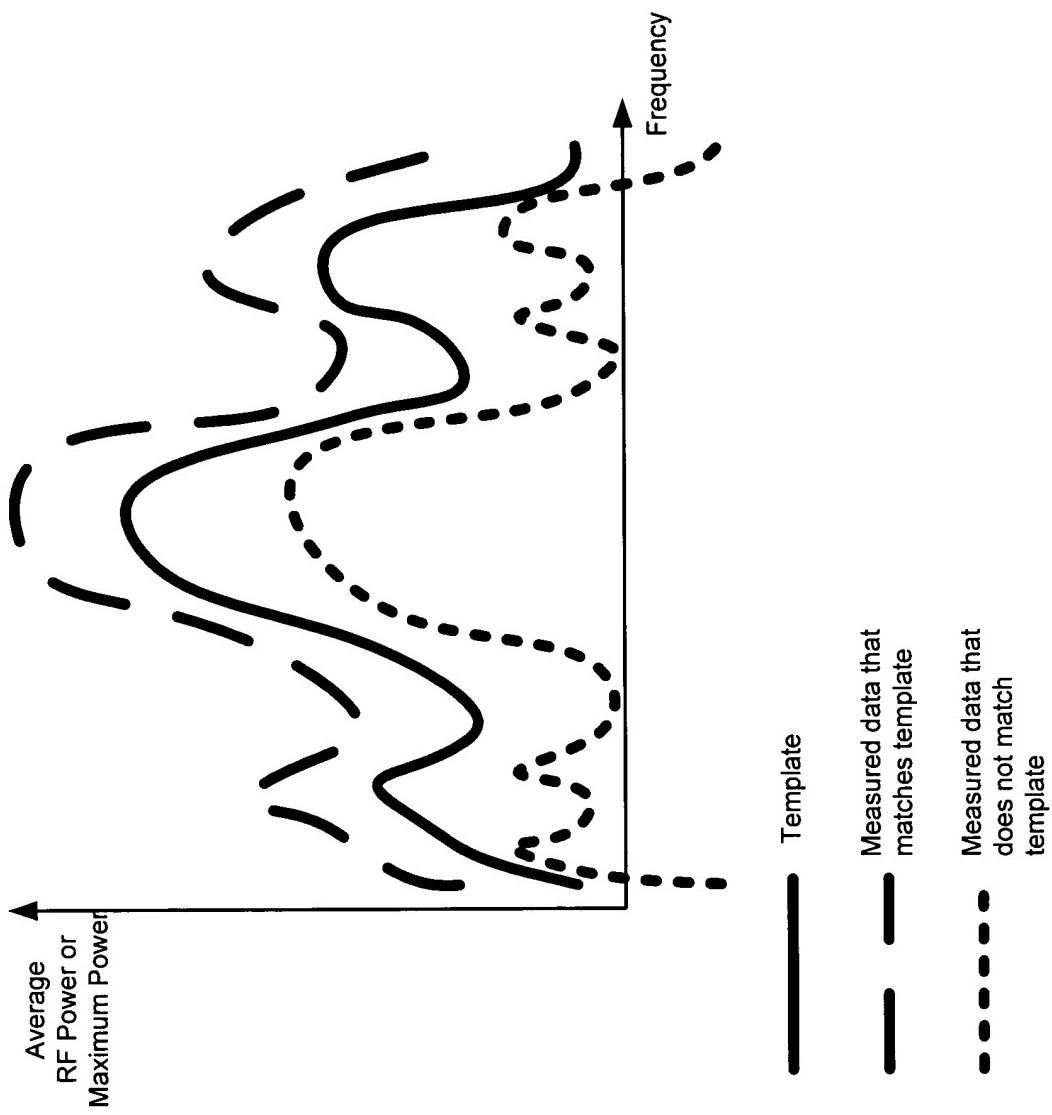


FIG. 16

Measured Power Data

Template 4(a)

Template 4(b)

Template 4(c)

Template 4(d)

Classifier 4

OR

Template 5(a)

Template 5(b)

AND

Measured Power Data 2

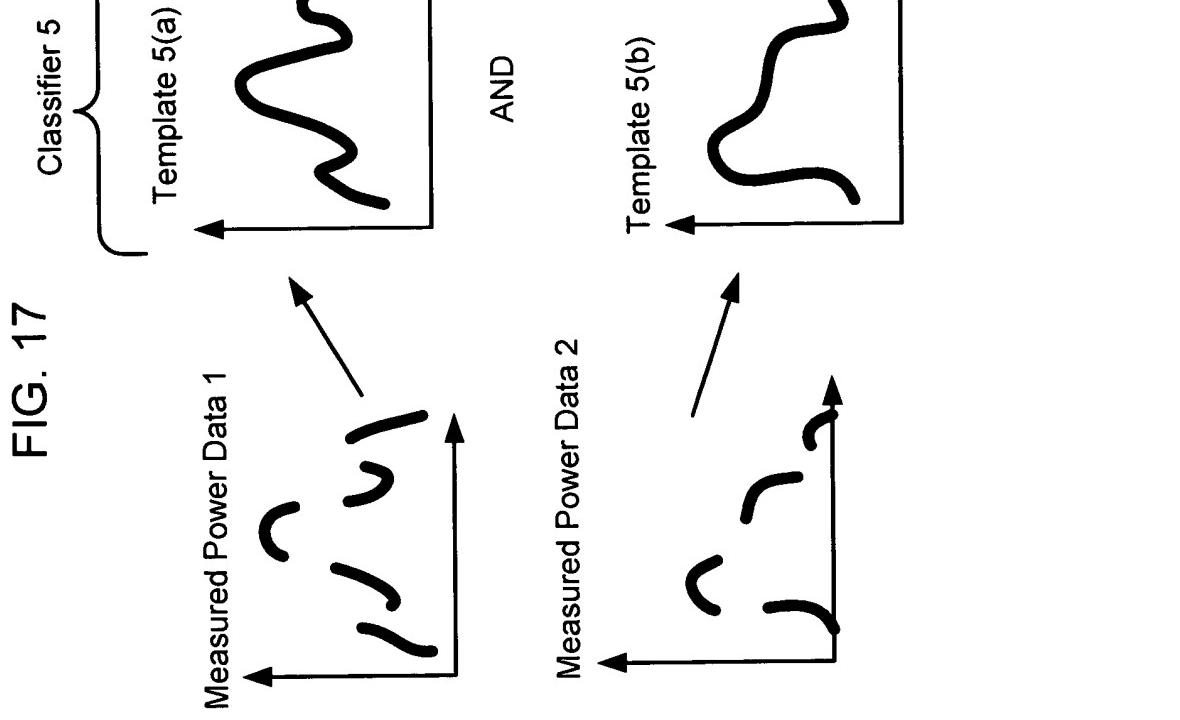


FIG. 18

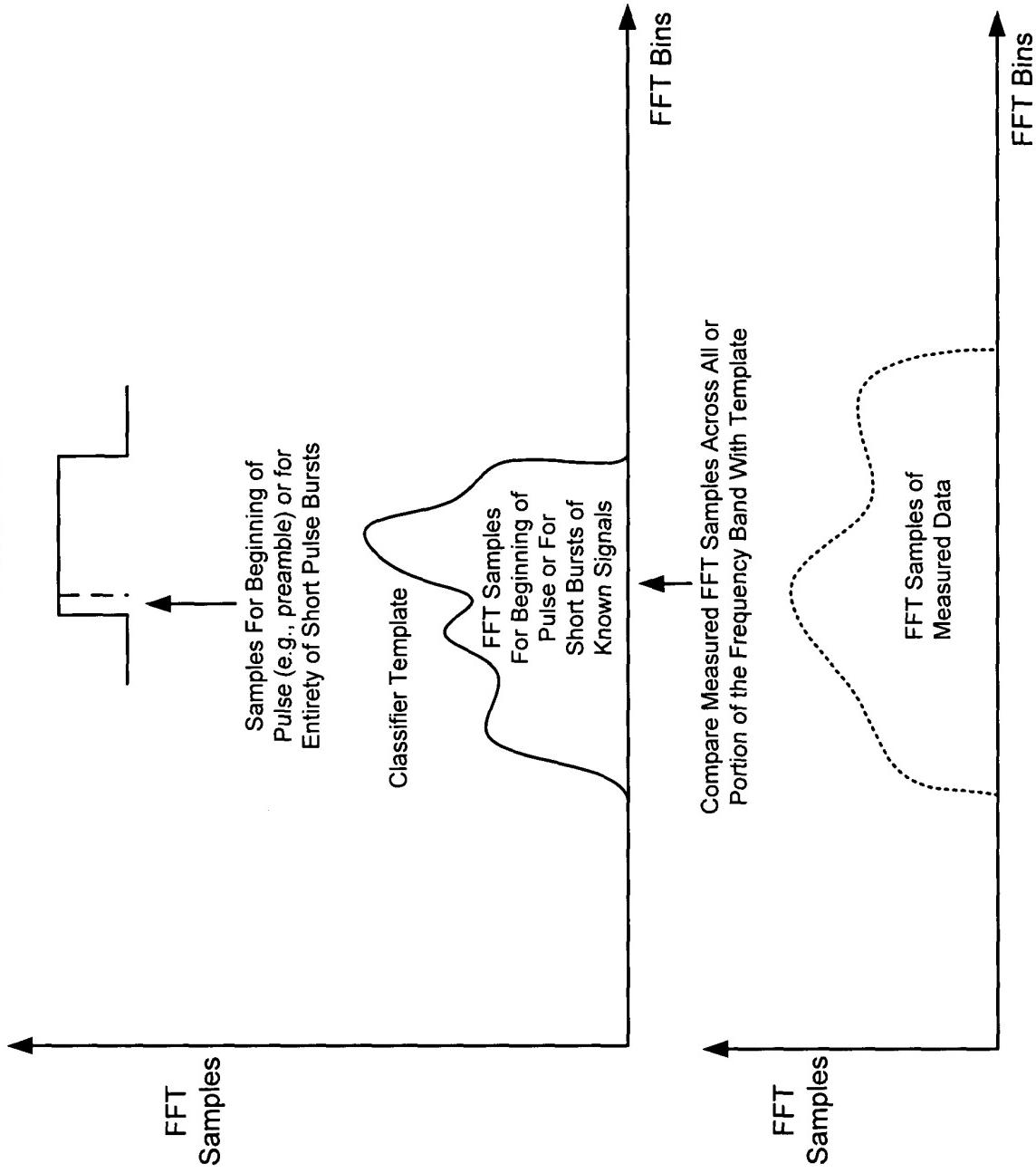


FIG. 19

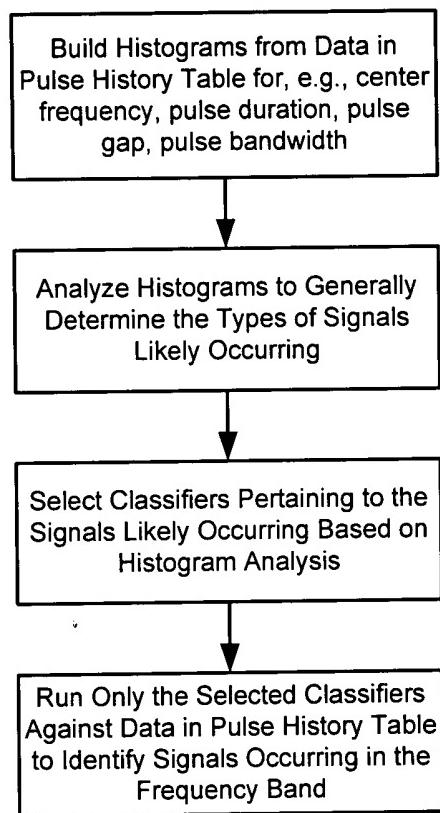
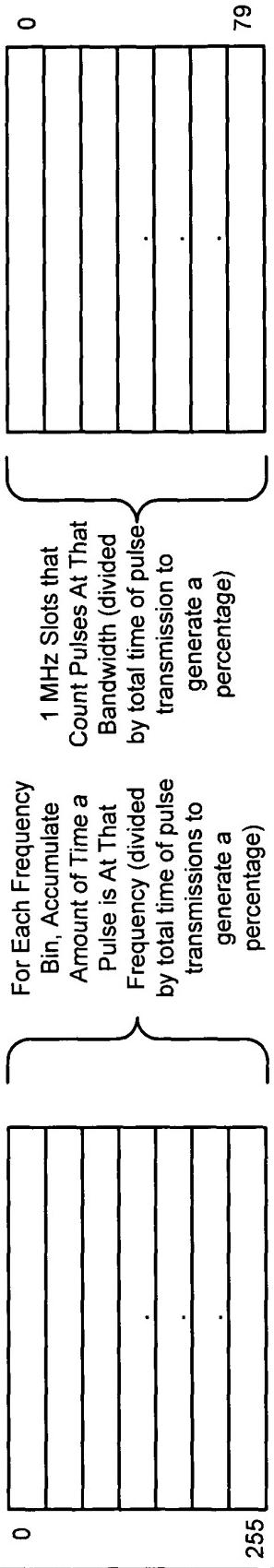
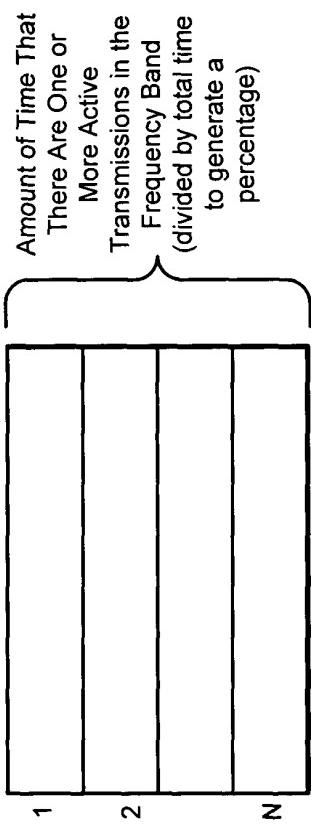


FIG. 20

Center Frequency Histogram



Active Transmissions Histogram



Pulse Duration/Time Between Pulses Histograms

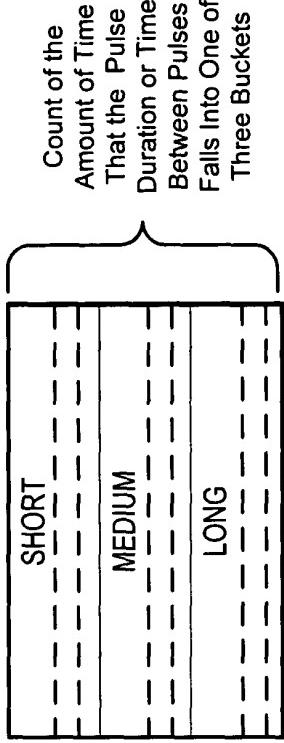


FIG. 21

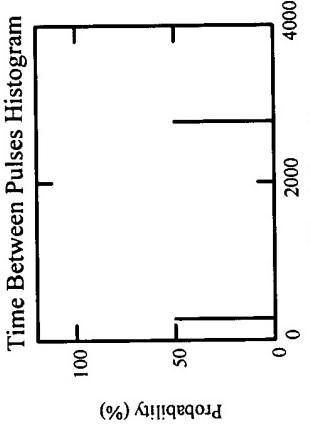
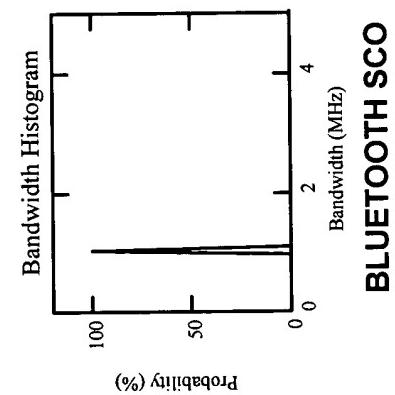
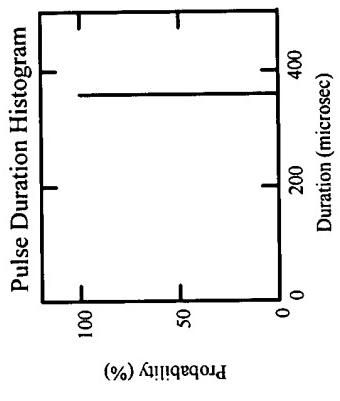
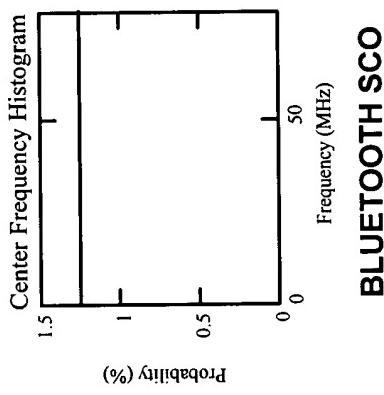


FIG. 22

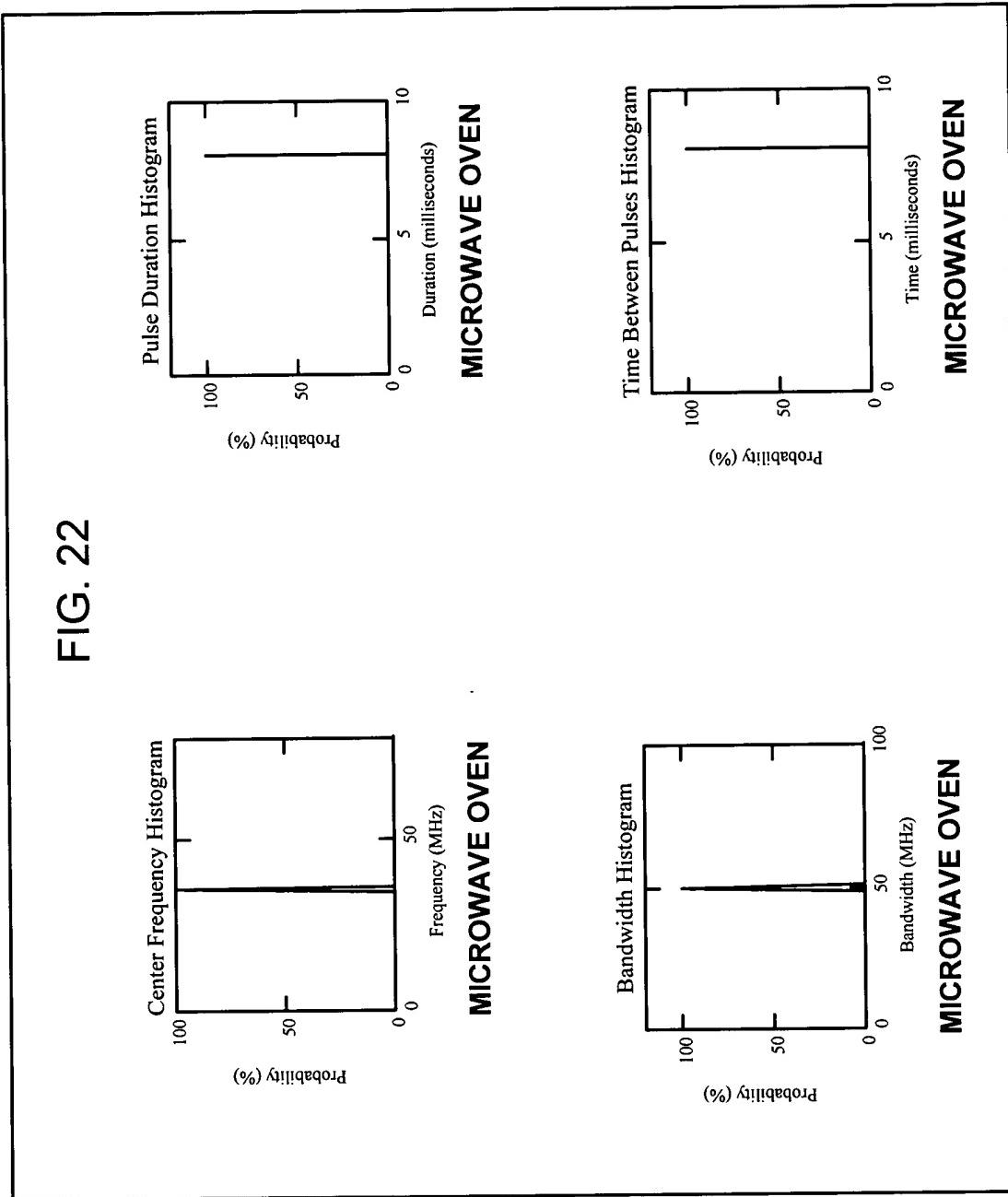


FIG. 23

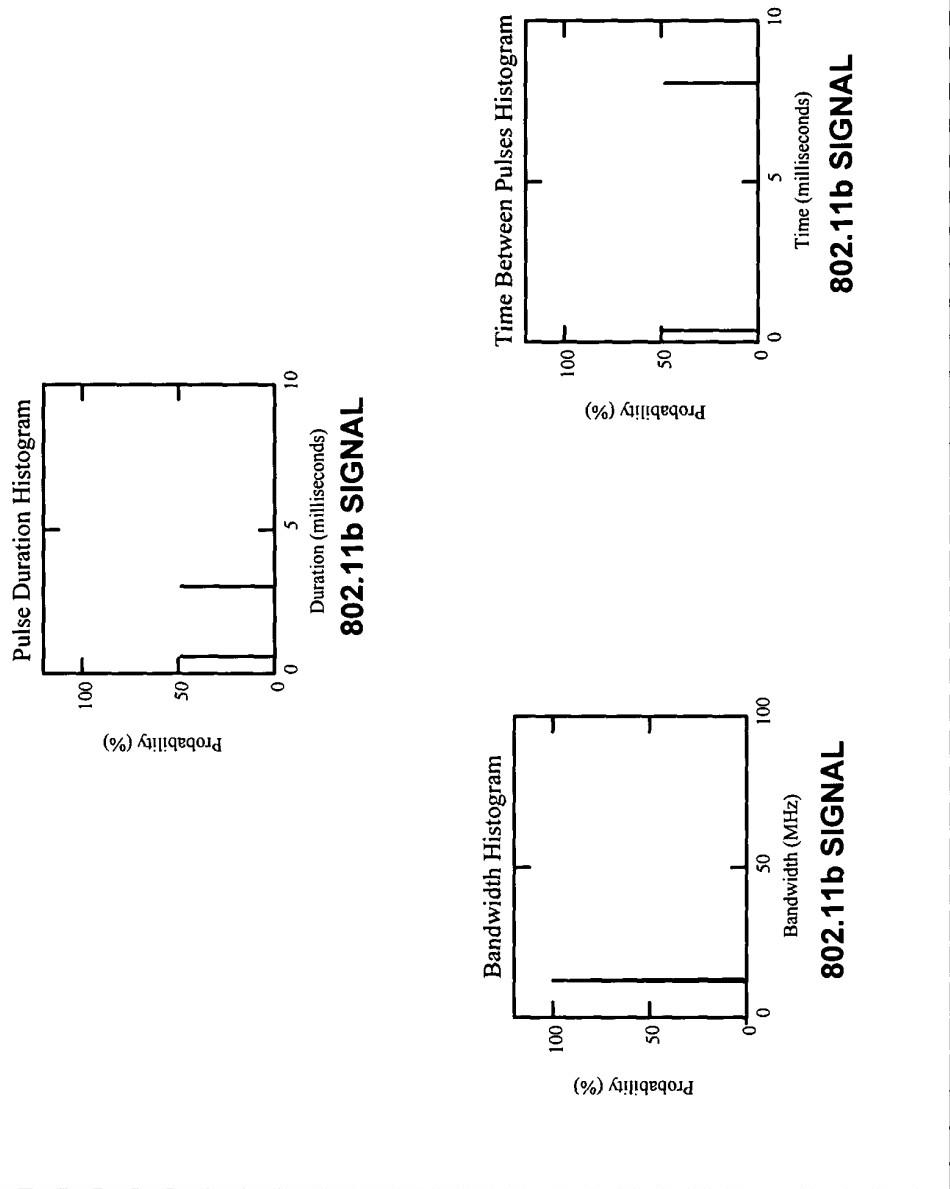


FIG. 24

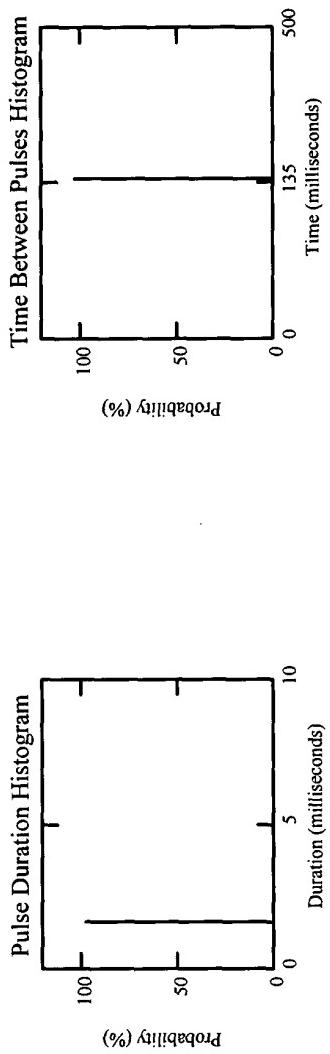


FIG. 25

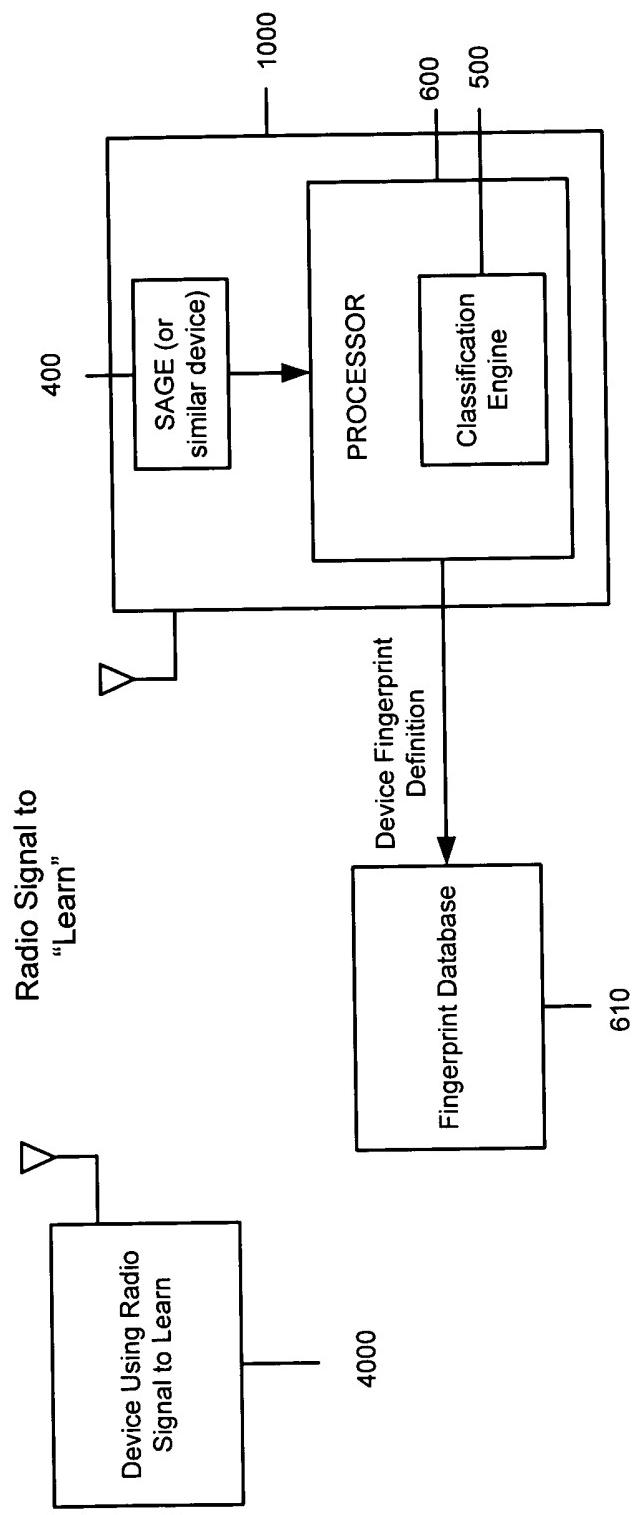


FIG. 26

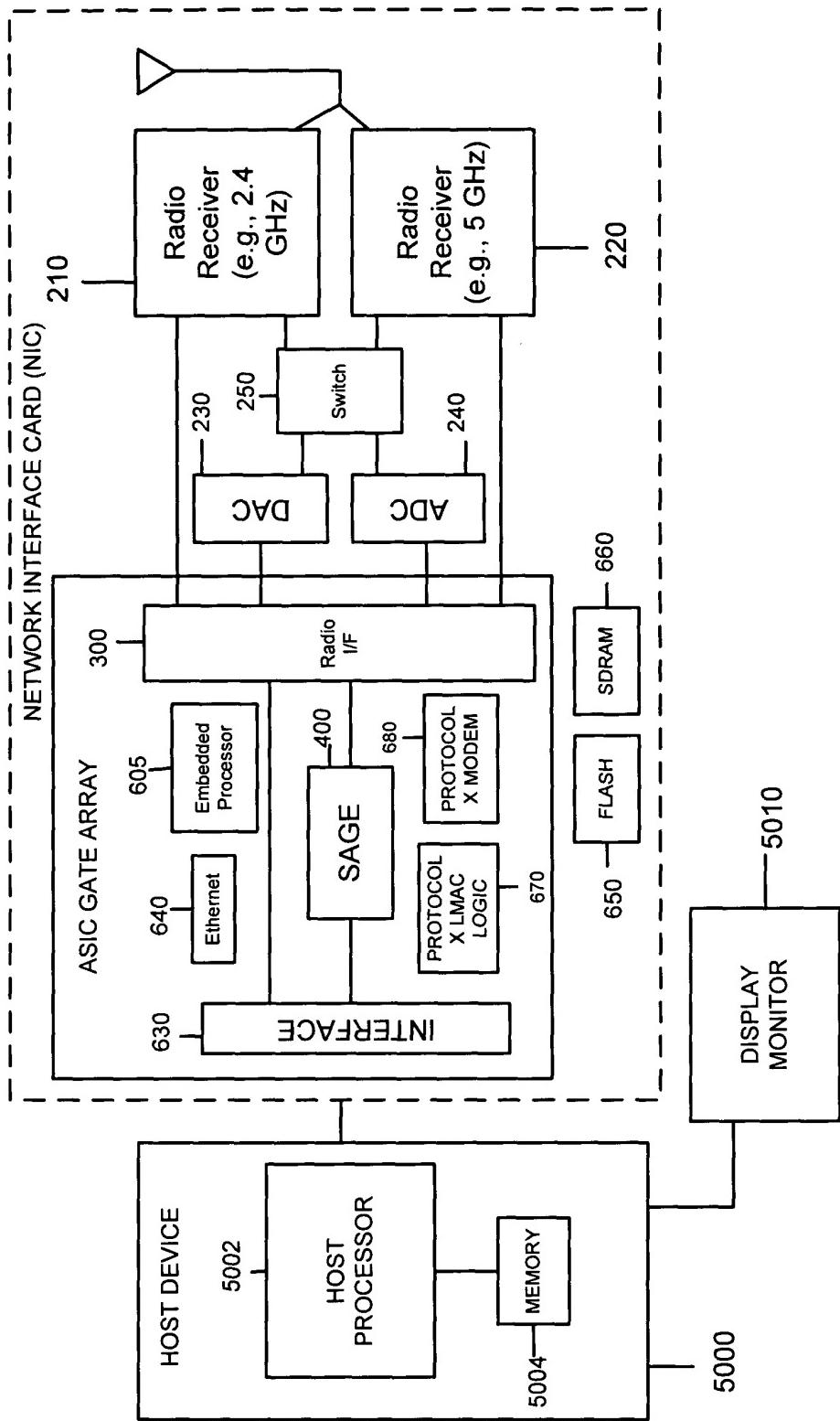


FIG. 27

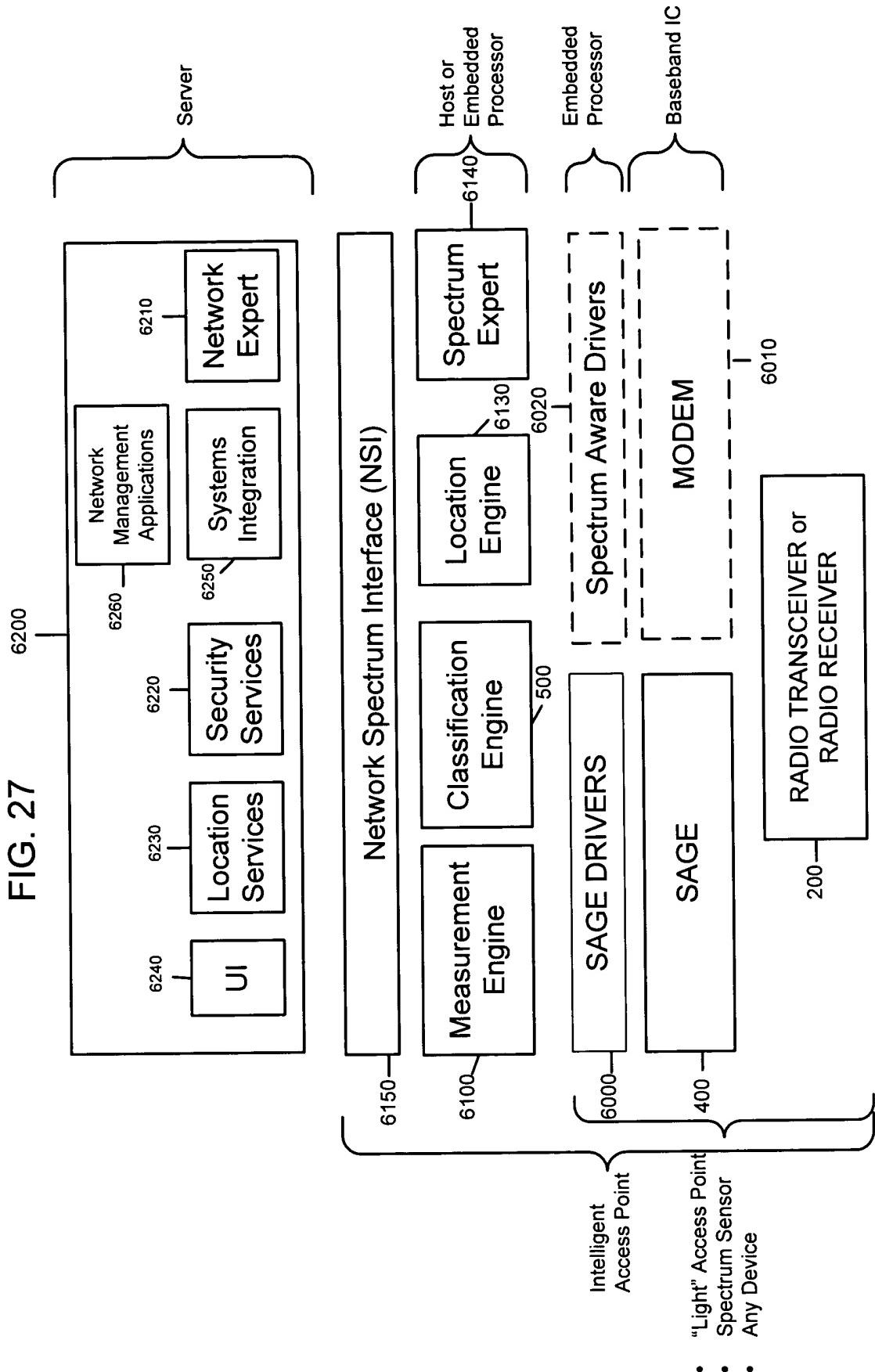


FIG. 28

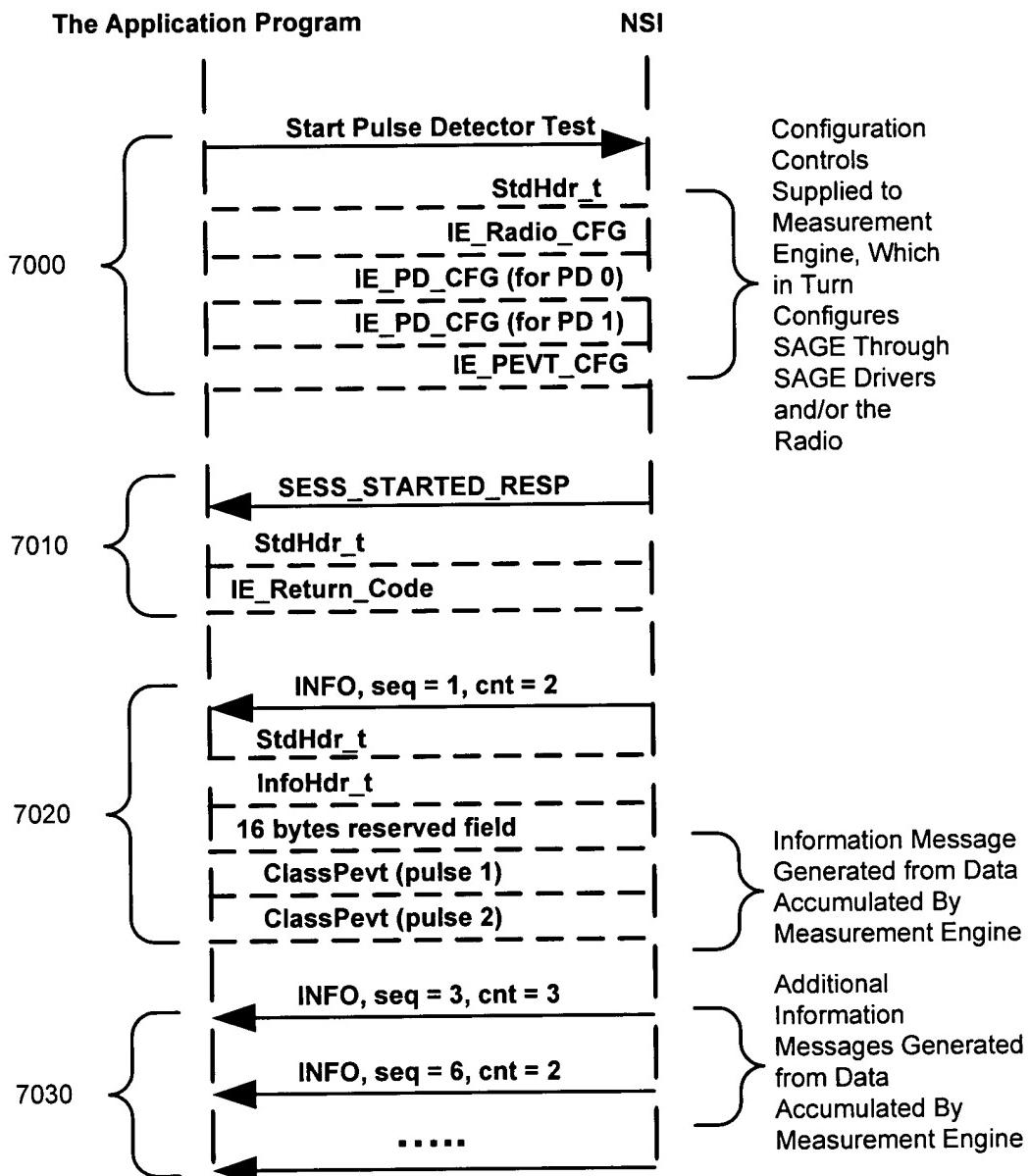


FIG. 29

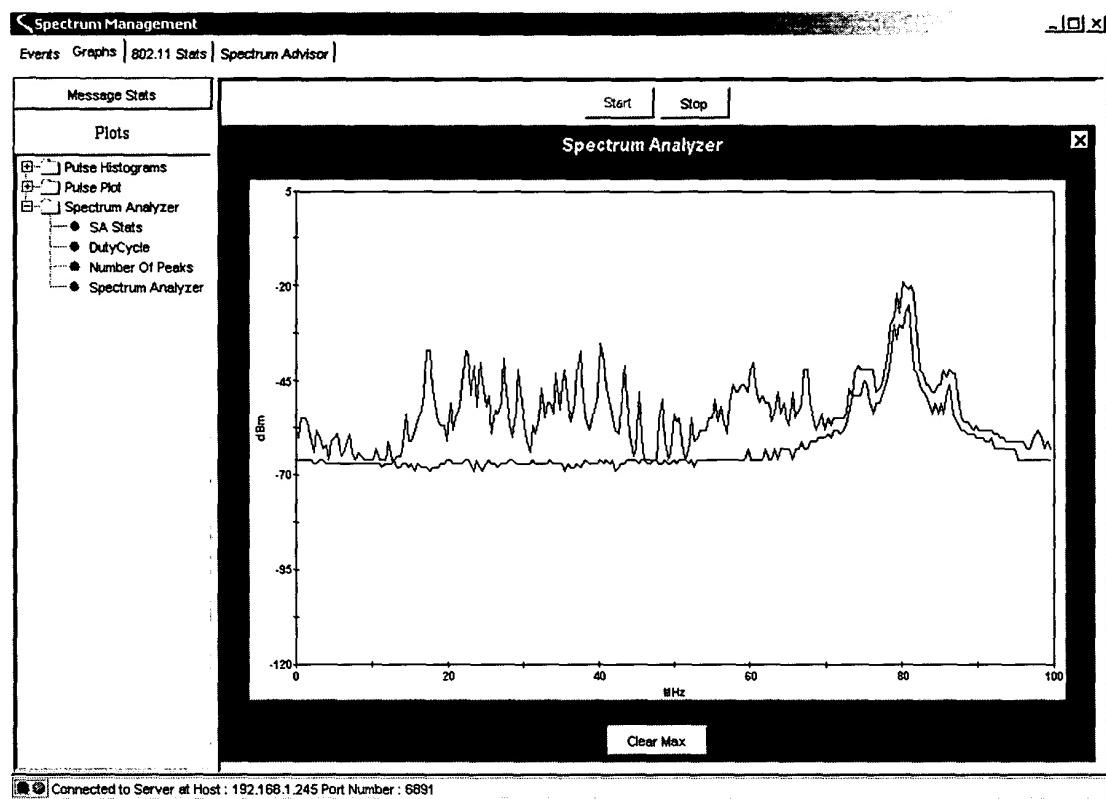


FIG. 30

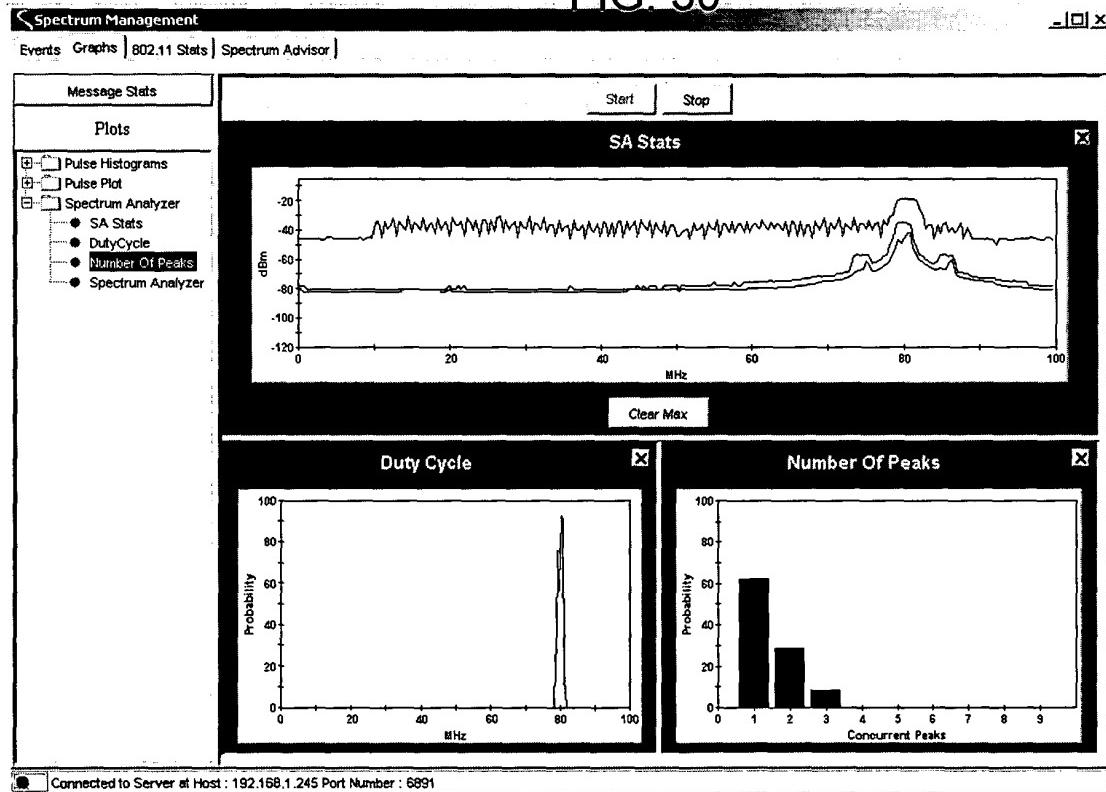


FIG. 31

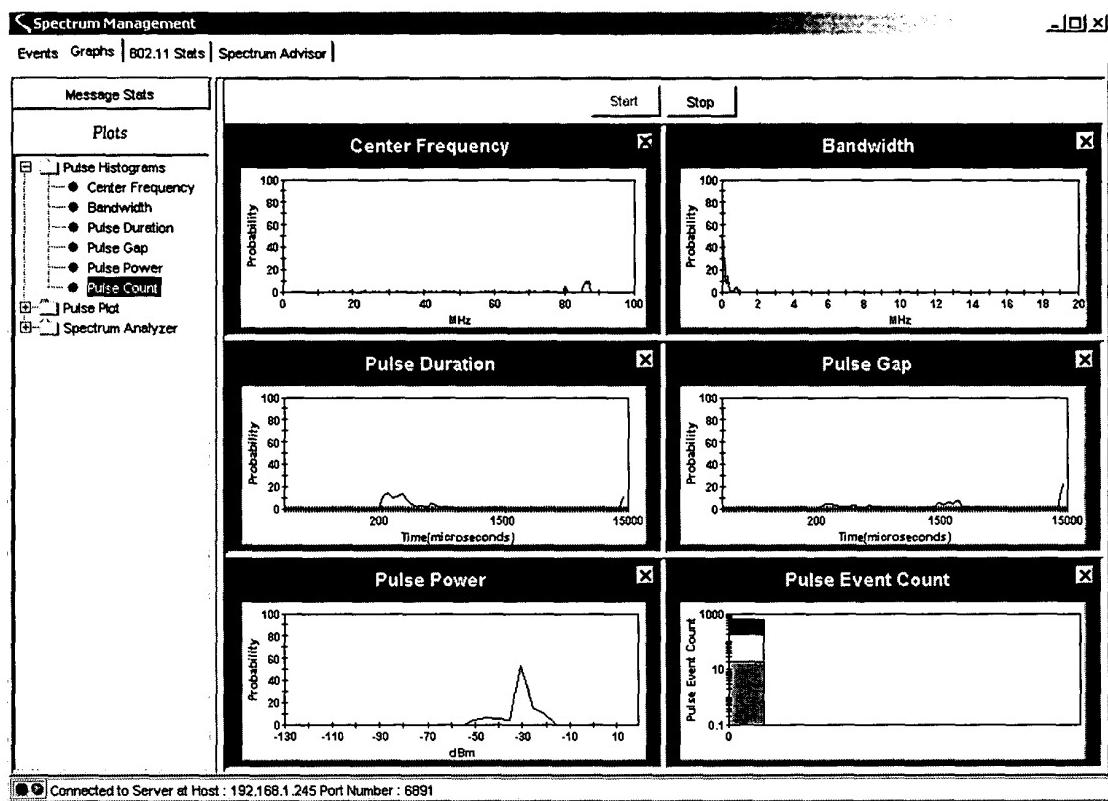


FIG. 32

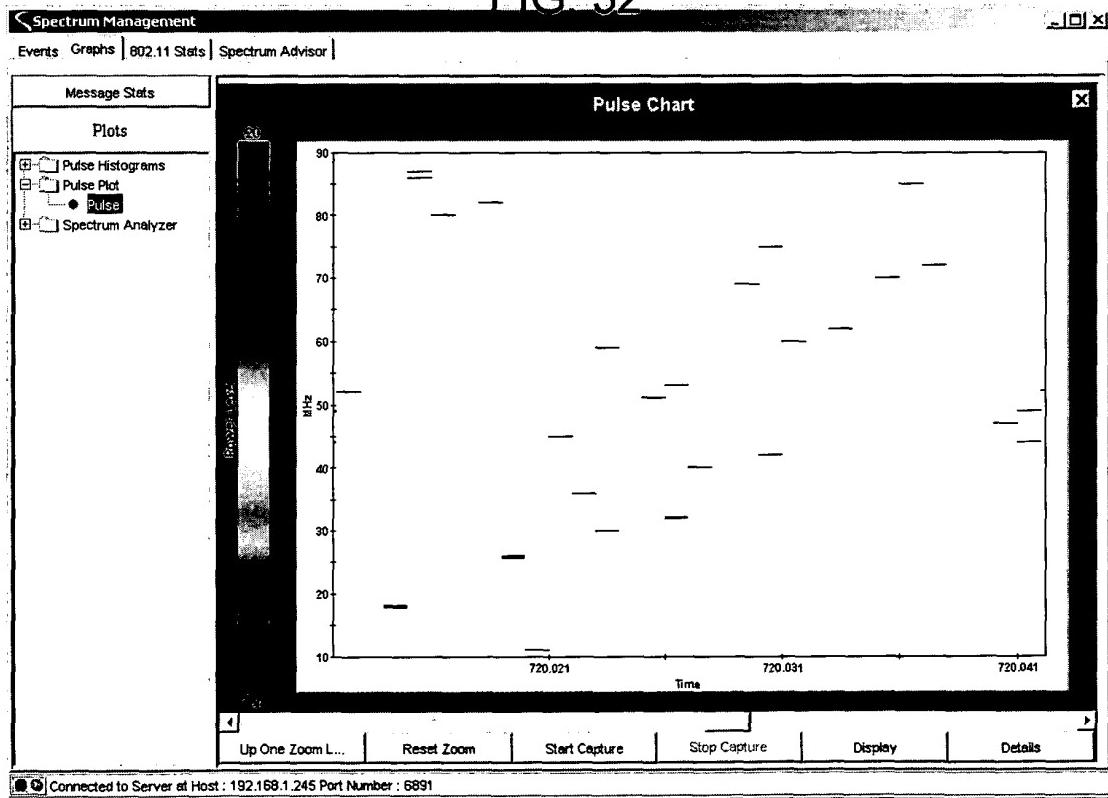


FIG. 33

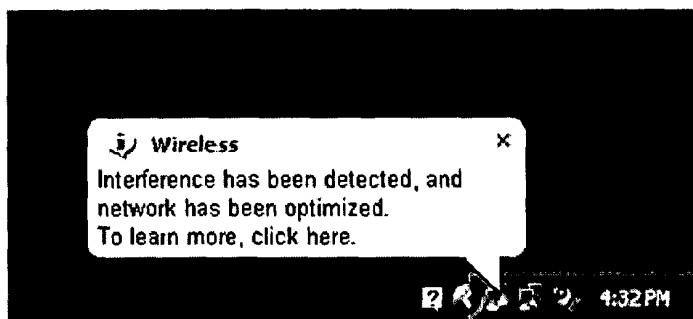


FIG. 34

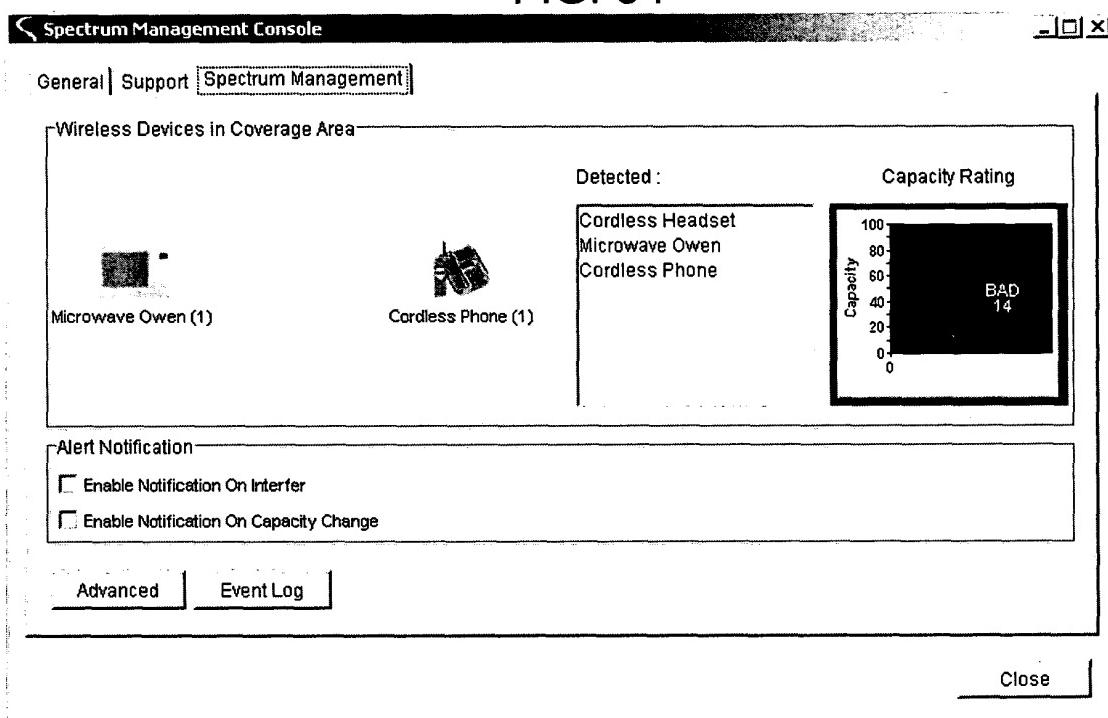


FIG. 35

Alert Level	Type	Message	Date & Time	Time Stamps		ID	Source ID
				sec	usec		
Low	Interferer	MICROWAVE OVEN Turned OFF	1:40:08 03/13/2003	E792	327712	2	0
High	Interferer	BILLET COTH HEADSET Turned ON	1:40:15 03/13/2003	E798	657712	7	0
Low	Interferer	GV CORDLESS PHONE Turned OFF	1:40:19 03/13/2003	E800	655424	4	0
Low	Interferer	MICROWAVE OVEN Turned ON	1:40:43 03/13/2003	E813	133616	3	0
Low	Interferer	BILLET COTH HEADSET Turned OFF	1:40:48 03/13/2003	E815	921328	6	0
Low	Interferer	GV CORDLESS PHONE Turned ON	1:41:00 03/13/2003	E822	263816	5	0

FIG. 36

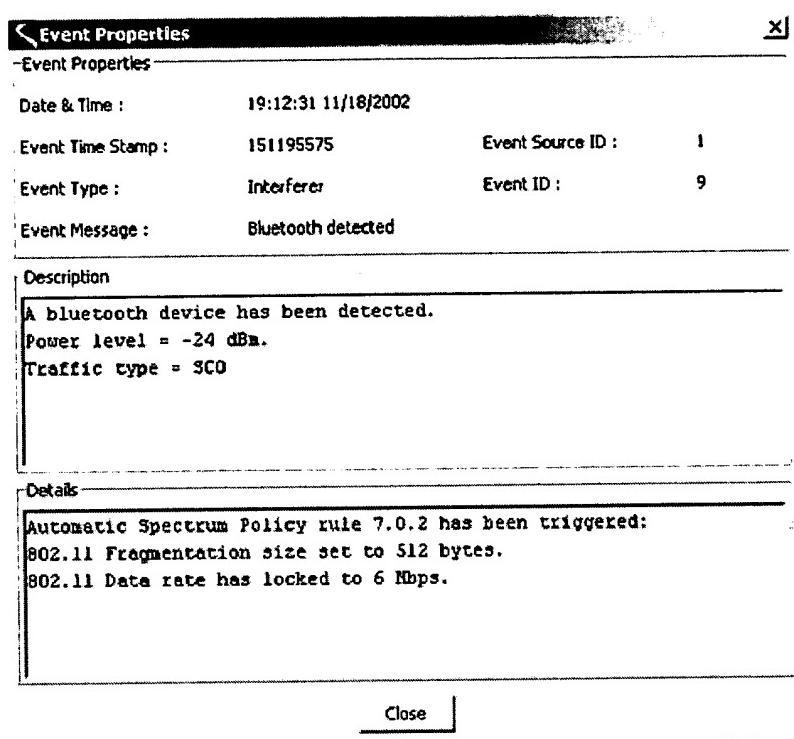


FIG. 37

